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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/547,035	04/11/2000	Chang Soo Son	P-097	4163

7590 01/02/2003
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EXAMINER

DAVIS, TEMICA M

ART UNIT PAPER NUMBER

2685

DATE MAILED: 01/02/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/547,035

Applicant(s)

Son

Examiner

Temica M. Davis

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Apr 11, 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on Apr 11, 2000 is/are a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
*See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____ 6) ☐ Other:

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DETAILED ACTION

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: "13", which identifies the handset in figure 1. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Objections

2. Claims 1 and 3 are objected to because of the following informalities: *In claim 1*, line 9, "the inside circuit" should read --an inside circuit--; in lines 9 and 10, "the output signal" should read --an output signal--; in line 11, "the battery" should read --a battery--; in line 12, "the inside circuit" should read --an inside circuit--. *In claim 2*, line 2, "the direct current power" should read --direct current power--. *In claim 4*, line 20, "the output signal" should read --an output signal--. Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 1, 2, 3 and 4 are rejected under 35 U.S.C. 102(e) as being anticipated by Muller, U.S. Patent No. 6044280.

Regarding claim 1, Muller discloses in a radio telephone system consisting of a main body (stationary section 1) and a wireless handset (mobile section 2) disposed at the system main body (i.e., when placed in the receptacle of the stationary section), a power supply device for the radio telephone system comprising a power failure detector (461, 462) for detecting power failure according to a direct current power state (i.e., the interrupted DC power supply state of the main power supply 3) (col. 9, lines 46-54) (the system is inherently supplied by DC power as evidenced by the presence of rectifiers in the power supply circuit 3; figures 1-2), a power switching unit (341) for switching battery power of a wireless handset to inside circuitry of the

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main body during a power failure according to an output signal from the power failure detector (i.e., the control signal used in actuating the switch in a manner dependent upon the normal operation state or the power failure operation state) (col. 9, lines 30-35 and col. 9, lines 46-67), and inherently a battery intercepting unit for intercepting power of a battery (6) of the wireless handset to be supplied to inside circuitry of the wireless handset during the power failure according to the output signal from the power failure detector as evidenced by the fact that mobile circuitry is disconnected from the battery upon the determination that the battery of the handset is being used to power the base unit (i.e., when the system is operating in the second switching state) (col. 10, lines 1-19).

Regarding claim 2, Muller discloses the device according to claim 1, further comprising a charging supply unit (i.e., power supply lines/contacts) for receiving direct current (via power supply circuit 3) (figures 1-2), and outputting charging power of the battery of the wireless handset (col. 8, lines 33-40 and col. 9, lines 2-14); and a main body voltage supply unit (i.e., power supply lines 350 and 360) for receiving the direct current (via power supply circuit 3; figures 1-2) and outputting operational power of the system main body (col. 9, lines 28-49).

Regarding claim 3, Muller discloses in a radio telephone system comprising of a system main body and a wireless handset disposed at the system main body, a power supply device for the radio telephone system comprising a charging power supply unit (power supply line 210) for receiving direct current power (col. 8, lines 33-40), and outputting operational power of the system body via power supply lines 350 and 360 (col. 8, lines 60-63 and col. 9, lines 23-27) and

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battery charging voltage via power supply line 210 of the wireless handset (col. 8, lines 33-40 and col. 9, lines 2-18), a power failure detector for detecting power failure according to a direct current power state (col. 9, lines 46-54), a battery (6) disposed at the wireless handset (col. 8, lines 33-40 and col. 9, lines 2-12), a first switch (341) for switching power of the battery to the inside circuit of the main body during power failure (col. 9, lines 46-54) and inherently a second switch for preventing the power of the battery from being inputted to the inside circuit of the wireless handset during the power failure as evidenced by the fact that mobile section circuitry is disconnected from the battery upon the determination of the battery of the handset being used to power the base unit in a power failed state (col. 10, lines 1-13).

Regarding claim 4, Muller discloses a power supply device for a radio telephone system comprising a battery disposed at a main body of the system (col. 4, lines 14-21 and col. 8, lines 33-40), a charging power supply unit for receiving direct current power, and outputting a charging voltage of the battery (col. 8, lines 33-40 and col. 9, lines 2-14), a main body voltage supply unit for receiving the direct current , and outputting operational power of the system main body (col. 9, lines 28-49), a power failure detector for detecting power failure according to a direct current power state (col. 9, lines 30-35 and col. 9, lines 46-67) and a switch for providing power of the battery to the inside circuit of the main body during the power failure according to an output signal from the power failure detector (col. 9, lines 30-35 and col. 9, lines 46-67).

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Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Muller in view of Dormer et al (Dormer), U.S. Patent No. 5,578,875.

Regarding claim 5, Muller discloses the device according to claim 4 as described above, and further discloses the prevention of battery power from being inputted to the wireless handset during power failure (col. 10, lines 1-13).

Muller, however fails to disclose a diode forwardly connected between an input terminal of a wireless handset and the battery for performing the prevention step.

In the same field of endeavor, Dormer discloses a dual battery recharger with a backup power feature for use in systems having a base unit and a battery-powered portable unit.

Dormer further discloses a diode oriented in a circuit in such a manner that prevents power from flowing in an undesired direction (col. 6, lines 51-59).

Therefore, at the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify Muller with the teachings of Dormer for the purpose of

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preventing reverse current flow into the circuitry of the handset for conserving the limited power for the operation of the base unit.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Newton, U.S. Patent No. 6,256,519, discloses a cordless telephone with corded operability in a direct current power failure situation.

Yamamoto et al, U.S. Patent No. 5,661,780, discloses a cordless telephone having a power failure detection circuit.

Nakayama, U.S. Patent No. 5,596,626, discloses a cordless telephone set with a battery charger and having a power supply line setting unit for establishing a power supply line for power supply from the battery or the battery charger.

Kodama, U.S. Patent No. 5,805,998, discloses a cordless telephone apparatus which has an auxiliary power source.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Temica M. Davis whose telephone number is (703) 306-5837. The examiner can normally be reached on Monday-Thursday from 7:30 am to 5:00 pm. The examiner can also be reached on alternate Fridays.

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If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Edward Urban, can be reached on (703) 305-4385.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to TC2600 customer service whose telephone number is (703)306-0377.

Any response to this action should be mailed to:


Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for any communications intended for entry).

December 20, 2002


TEMICA M. DAVIS
PATENT EXAMINER